



PCT09

## RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/701,926B

TIME: 14:19:51

Input Set : A:\111590-122.ST25.txt

Output Set: N:\CRF3\02062002\I701926B.raw

p.s

4 <110> APPLICANT: The University of Queensland  
 6 <120> TITLE OF INVENTION: Phenotype Modifying Genetic Sequences  
 8 <130> FILE REFERENCE: 111590-122  
 10 <140> CURRENT APPLICATION NUMBER: US 09/701,926B  
 11 <141> CURRENT FILING DATE: 2001-12-10  
 13 <150> PRIOR APPLICATION NUMBER: PCT/AU99/00434  
 14 <151> PRIOR FILING DATE: 1999-06-04  
 16 <150> PRIOR APPLICATION NUMBER: PP3901  
 17 <151> PRIOR FILING DATE: 1998-06-04  
 19 <150> PRIOR APPLICATION NUMBER: PP6174  
 20 <151> PRIOR FILING DATE: 1998-09-25  
 22 <150> PRIOR APPLICATION NUMBER: PP6169  
 23 <151> PRIOR FILING DATE: 1998-09-25  
 25 <150> PRIOR APPLICATION NUMBER: PP3903  
 26 <151> PRIOR FILING DATE: 1998-06-04  
 28 <160> NUMBER OF SEQ ID NOS: 39  
 30 <170> SOFTWARE: PatentIn Ver. 2.0  
 32 <210> SEQ ID NO: 1  
 33 <211> LENGTH: 1217  
 34 <212> TYPE: DNA  
 35 <213> ORGANISM: Tomato  
 37 <400> SEQUENCE: 1

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40 cattatcact gagccttatg attatgtttt acgagcttat aatatcactg atgggtgattc 180
41 agtattgtga ttatgtcctt cgttgattat tctgtttcat acaagtcgtg taatttgctg 240
42 tttgtgacag tacgatagat cgactcaacc ttctgaggta ttagttgaag ttcattgtaaa 300
43 ttagcctttg ttatcatagt agcatttgat tattgatgct ctgtagctaa tgataagcca 360
44 ttggagggaa gcaagctttc taaatgaatc tacgaatgga tgataaagtt catgaatatt 420
45 tttgttactt ctgcagtcag atcatgagtt attgagtcta ttgttttttt aagcctgttt 480
46 cagatgatcc atcatcagta acaacataca cgggtgtagtc ccaaatccat catatgcacc 540
47 ttcttttctt caatttggtc ttgttttttt tttttcatga tgtcattgaa ttattcaaga 600
48 agtcacttcg agcataatga tttttcaaaa tccacctttg ttcaagcact accacgtctt 660
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50 acaaacatat atatacacta tacactatga atccactaat actagatggt gcacctgtgc 780
51 cccactcat gtgaaagcct attctcaatt ttttattttc cacaacttaa atacagaccg 840
52 cacaactccc gtgtcttggtg tgctcgtcgc tcagcatgca agtcgagaaa agaaagacca 900
53 aaacaatgaa aactttacga aaaatcaaaa agttgaagga cttaacgctc gagatctctc 960
54 gttagaaaac tcttttgtaa ggttgcatac aatacttttt tttcagactt tacttatggt 1020
55 attatactga atatgttatt gctgttatag tagttgagtg acgtttgagg gaatttctag 1080
56 tccgttaatc ttgtactcag tgtgtctact tttcaaaaaa gtcagttttt cagtctctaa 1140
57 aacacattta aataagagtt tctttgcccc tctttgttct ctcactcctag gcttggagtc 1200
58 aacacaacac aacaaca                                     1217
  
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62 <212> TYPE: DNA
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66 tcttattggt gtgctcaaag caacttcac atacagtatg gtttttatat gctcttccat 120
67 tatcaccgaa ccttatgatt atgtgtacga gcttataata ttactgatgg tgattcagta 180
68 ttatgattat gtcctccatt aattattctg tttcatacaa gtcgtgtaat ttgctgtttg 240
69 tgattgtacg ataaattgat tcaaccttct gcggtgttgg ttgaagttca agtaaattag 300
70 ctttatttat catagtagca tttgattatt gatgctctgt agctaattgat aagccattga 360
71 aggggaagcag aaatggtaaa gctttctaaa atgaatctac gaatggatga taaagttaat 420
72 gaattattgt gatacttctg caatcagatt atgagttact gagtctactg ttttttaagc 480
73 ctgtttcaga tgatcgatca tcaacaacaa catattcagt gtagtagaca tgatcgatca 540
74 ctttctaatt ttcgattatg caccctcttt tctccaattt ggctgctctt tttttttcat 600
75 gatgtcactg aattattctc tggctgctcc caccattcag gaagtcactt cgagcataat 660
76 gtgaaaacat ccacattttt caaatccagc agaattttca tcaaacgggg ttcaacattt 720
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81 cactgaaatt tccagggtcgt taatcttgta cccagtggtg gtacttttaa aaaaaaaagt 1020
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91 3083, 3090, 3092, 3104, 3114, 3146, 3192, 3921
92 <223> OTHER INFORMATION: n = A,T,C or G
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96 aacttcatca tcatcacgta tgggtttgat atgctcttcc attatcactg agccttatga 180
97 ttatgtttta cgagcttata atatcactga tgggtgattca gtattgtgat tatgtccttc 240
98 gttgattatt ctgtttcata caagtcgtgt aatttgcgtt ttgtgacagt acgatagatc 300
99 gactcaacct tctgagggtat tagttgaagt tcatgtaaat tagctttgtt tatcatagta 360
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103 caacatacac ggtgtagtcc caaatccatc atatgcacct tcttttcttc aatttggctc 600
104 tgtttttttt ttttcatgat gtcattgaat tattcaagaa gtcacttcga gcataatgat 660
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106 gtggaggatc tagaattttc atgaaaggat tcaaaattta caaacatata tatacactat 780
107 acactatgaa tccactaata ctagatgggt cacctgtgcc cccactcatg tgaaaagcta 840
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113 gctcgtcgct cagcatgcaa gtcgagaaaa gaaagaccaa aacaatgaaa acttttacgaa 960
114 aaatcaaaaaa gttgaaggac tttaacgctcg agatctctcg tagaaaaacct cttttgtaag 1020
115 gttgcataca atactttttt ttcagacttt acttatggta ttatactgaa tatgttattg 1080
116 ctgttatagt agttgagtga cgtttgaggg aattttctagt ccgttaatct tgtactcagt 1140
117 gtgtctactt ttcaaaaaag tcagtttttc agtctctaaa acacatttaa ataagagttt 1200
118 ctttgcccat cttttgttcc tcactcctagg cttggagtca acacaacaca acaacaatga 1260
119 atttccattt ttctgtttct ttactttctct ctttatctct tcctatgttt gcctcttcga 1320
120 cgggtgttatt tcaggtatcc atctccaaag aaccttattt ttctcttaac ttttcctatg 1380
121 tatatgtatc tctatgttta tgtagtactt gtccaagtat ataaagaaaa gttagtttct 1440
122 ctagaatctt tgaattcatt tgtaggggt tcaattggga ttcgagtaat aagcaaggcg 1500
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125 acctagtaat ccaatgaagt caaaataacc acggaagatt agagtctaaa ttttaatgaa 1680
126 aatagttcag acaagttaat gaccaactta tatattagtt caatccataa aatttgatgt 1740
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200 tctgcaaatc atttccagtt caatgtatta ctactttagt ttaaaaaacct taaaaggcag 6180
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202 ttgctctaaa tccccgttca atg 6263
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206 <212> TYPE: DNA
207 <213> ORGANISM: Tomato
209 <220> FEATURE:
210 <221> NAME/KEY: misc feature
211 <222> LOCATION: 16, 23, 47, 302, 521, 633
212 <223> OTHER INFORMATION: n = A,T,C or G

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217 acccttaaat gtagggaatt tgaagtttta aaaaccacac tttgttattt attggcccaa 180  
218 atactcgata atctttacat tattgaaaat caacattcaa aaggaacgaa ccttcaatca 240  
219 caccatcaat gtcaactttc ttttattttg gataatctaa gtttttaaat tgcagtaaaa 300  
W+> 220 tnaaataaaaa ccctaaactt cttctaggtt gagacttagt aaatatgaat tatataaaga 360  
221 attcatgaca aatgagacat aagaatagtg ccagcaaatt acttttttga tatcttatct 420  
222 gtgataatcgg aatttttaact accataaatt tatgaatgaa atatcactta tctattagag 480  
W-> 223 aggatttaat ctcccttata atgacattga taaaagcaag nacaagtgtc ctttattttc 540  
224 taattacaaa tccttaataa gataaaagct acgaataaca taatatcctt aaatagataa 600  
W--> 225 aagctacgaa taacataata gtatatattt ccaattattt ttgattttatt taaaatgact 660  
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230 <211> LENGTH: 662  
231 <212> TYPE: DNA  
232 <213> ORGANISM: Tomato  
234 <400> SEQUENCE: 5  
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237 ttaaaattgt tattttctgtt ttgtctgtgt catattatga cctacacaac aacaacaaca 180  
238 acgaatttag tgaaactcta caaagtggag cctgaagtcg agagtttacg cgggccttat 240  
239 cactatcttt tcgagataaa aaaattattt ttaaaagatc atcgacttaa acaaaacaaa 300  
240 caataattaa aaaaatatga attaatagca aagcagtgtg gaccatata acaaaaatct 360  
241 ataacaacaa caaggtgcag agcattattc caactaagat cgaagttgtg atactgtcat 420  
242 aataaaaaatg acacatatatt tgacaacata aaaaataaat aaccataaaa tatatcatag 480  
243 aaaaatgaat atattagaac agctcactcc aatattaaaa gagagaaaaa aaatattttc 540  
244 ccaccacaat gccataatcc ttgagcttag ctatttataa gtataaaaaa tgttttcttg 600  
245 gataaataga aaaagaaata ataattaaac ataaccaatc acttcacaaa taagagtgtg 660  
246 tt 662  
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251 <212> TYPE: DNA  
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262 <213> ORGANISM: Potato  
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270 <211> LENGTH: 708  
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274 <400> SEQUENCE: 8

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

## VERIFICATION SUMMARY

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32  
L:665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34  
L:691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34  
L:707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39